

Title (en)
METHOD AND SYSTEM FOR PRE-PURIFICATION OF A FEED GAS STREAM

Title (de)
VERFAHREN UND SYSTEM ZUR VORREINIGUNG EINES SPEISEGASSTROMS

Title (fr)
PROCÉDÉ ET SYSTÈME POUR LA PRÉ-PURIFICATION D'UN FLUX DE GAZ D'ALIMENTATION

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Application
EP 21745647 A 20210630

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Abstract (en)
[origin: US2022054976A1] A system and method of pre-purification of a feed gas stream is provided that is particularly suitable for pre-purification of a feed air stream in cryogenic air separation unit. The disclosed pre-purification systems and methods are configured to remove substantially all of the hydrogen, carbon monoxide, water, and carbon dioxide impurities from a feed air stream and is particularly suitable for use in a high purity or ultra-high purity nitrogen plant. The pre-purification systems and methods preferably employ two or more separate layers of hopcalite catalyst with the successive layers of the hopcalite separated by a zeolite adsorbent layer that removes water and carbon dioxide produced in the hopcalite layers.

IPC 8 full level
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